

Application No. 10/786,507
Filed: February 25, 2004
TC Art Unit: 3726
Confirmation No.: 4009

AMENDMENT TO THE CLAIMS

1. (CURRENTLY AMENDED) A method of making a fiber blank from at least one porous fiber structure, the method comprising the steps of:

consolidating the porous fiber structure by forming within it a deposit of a refractory material by partially densifying the fiber structure so as to bond together the fibers of the fiber structure to enable the fiber structure to be handled without being deformed, while leaving empty the major fraction of the initial pore volume of the fiber structure;—and

implanting rigid pins through the consolidating porous structure;—

wherein said at least one fiber structure is consolidated by reducing its pore volume by no more than 40% of its initial value.

2. (CURRENTLY AMENDED) A method of making a fiber blank by bonding together porous fiber structures in order to obtain a blank of desired shape, the method comprising the following steps:

consolidating each porous fiber structure by forming within it a deposit of a refractory material by partially densifying the fiber structure so as to bond together the fibers of the fiber structure to enable the fiber structure to be handled without being deformed, while leaving empty the major fraction of the initial pore volume of the fiber structure;

putting the consolidated fiber structures together; and

connecting them together by implanting pins of rigid material through the adjoining consolidated fiber structures;—

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wherein said at least one fiber structure is consolidated by
reducing its pore volume by no more than 40% of its initial value.

3. (CANCELLED)

4. (CURRENTLY AMENDED) A method according to claim 1, wherein
~~the or each said at least one~~ fiber structure is consolidated by
reducing its pore volume by an amount lying in the range 8% to 40%
of its initial value.

5. (CURRENTLY AMENDED) A method according to claim 1, wherein
~~the or each said at least one~~ fiber structure used has a pore
volume ratio lying in the range 50% to 70%, and consolidation is
performed so as to reduce the pore volume ratio down to a value
lying in the range 40% to 60%.

6. (CURRENTLY AMENDED) A method according to claim 1, wherein
~~the or each said at least one~~ fiber structure is consolidated by
forming a deposit of ceramic or of carbon.

7. (CURRENTLY AMENDED) A method according to claim 6, wherein
~~the or each said at least one~~ fiber structure is consolidated by
chemical vapor infiltration.

8. (CURRENTLY AMENDED) A method according to claim 7, wherein
~~the or each said at least one~~ fiber structure is consolidated by
forming a ceramic deposit by chemical vapor infiltration after
forming an interphase layer on the fibers of the fiber structure,

Application No. 10/786,507
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TC Art Unit: 3726
Confirmation No.: 4009

said interphase layer lying between the fibers and the ceramic deposit.

9. (CURRENTLY AMENDED) A method according to claim 6, wherein ~~the or each said at least one fiber~~ structure is consolidated by being impregnated with a liquid composition containing a ceramic or carbon precursor, and by transforming the precursor into ceramic or carbon.

10. (ORIGINAL) A method according to claim 9, wherein a composition is used containing a ceramic or carbon precursor in solution.

11. (ORIGINAL) A method according to claim 1, wherein pins are used that have been made by densifying and stiffening a yarn or tow by means of a matrix.

12. (ORIGINAL) A method according to claim 1, wherein pins are used that are made in the form of rigid monofilaments.

13. (ORIGINAL) A method according to claim 1, wherein pins are used in the form of sticks of thermostructural composite material.

14. (ORIGINAL) A method according to claim 1, wherein the pins are implanted in at least two different directions.

15. (ORIGINAL) A method of making a fiber-reinforced composite material part, wherein a blank is made of shape corresponding to the shape of the part that is to be made by means of a method

Application No. 10/786,507
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TC Art Unit: 3726
Confirmation No.: 4009

according to claim 1, after which the blank is densified by depositing a matrix within the remaining pore volume of the or each consolidated fiber structure.

-7-

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